

TREATMENT PROTOCOL: NON-TRAUMATIC CARDIAC ARREST (ADULT) *

1. Basic airway
2. If arrest not witnessed by EMS:
CPR for 2min at a compression rate of at least 100/min, minimize interruptions to chest compressions
3. Cardiac monitor: document rhythm and attach ECG strip
4. If asystole, confirm in more than one lead
5. If fine V-Fib is suspected, treat with V-Fib/Pulseless V-Tach

A 12-lead ECG shall be acquired on patients who complain of chest pain/discomfort of suspected cardiac etiology, non-traumatic post cardiac arrest patients with a return of spontaneous circulation (ROSC) and/or patients who the paramedics suspect are experiencing an acute cardiac event.

ASYSTOLE / PEA	V-FIB / PULSELESS V-TACH
<ol style="list-style-type: none"> 6. If confirmed PEA, consider causes ❶ 7. Venous access, if unable: place IO (if available) 8. Epinephrine (1:10,000) ❷ 1mg IV or IO 9. Consider advanced airway ❸, capnography 10. If narrow complex and heart rate greater than 60bpm: Normal saline fluid challenge 10ml/kg IV or IO at 250ml increments 11. CPR for 2min 12. CONTINUE SFTP or BASE CONTACT 13. Epinephrine (1:10,000) 1mg IVP or IO May repeat every 3-5min 14. If down time greater than 20min: Sodium bicarbonate 1mEq/kg IV push May repeat 0.5mEq/kg every 10-15min 15. If resuscitative efforts are successful: Perform 12-lead ECG ❹ 16. If resuscitative efforts are unsuccessful: contact the base hospital to consider pronouncement ❺ 	<ol style="list-style-type: none"> 6. Defibrillate ❹❺ Biphasic at 120-200J (typically) Monophasic at 360J 7. CPR for 2min 8. Venous access, if unable: place IO (if available) 9. Check rhythm ❹, and if indicated: Defibrillate Biphasic at 200J, monophasic at 360J 10. CPR for 2min 11. Epinephrine (1:10,000) ❷ 1mg IVP or IO 12. Consider advanced airway ❸, capnography 13. Check rhythm, and if indicated: Defibrillate Biphasic at 200J, monophasic at 360J 14. CPR for 2min 15. CONTINUE SFTP or BASE CONTACT 16. Amiodarone 300mg IV or IO 17. CPR for 2min 18. Check rhythm, and if indicated: Defibrillate Biphasic at 200J, monophasic at 360J 19. Epinephrine (1:10,000) 1mg IVP or IO May repeat every 3-5min 20. CPR for 2min 21. Check rhythm, and if indicated: Defibrillate Biphasic at 200J, monophasic at 360J 22. Amiodarone 150mg IV or IO Maximum total dose 450mg 23. CPR for 2min 24. Check rhythm, and if indicated: Defibrillate Biphasic at 200J, monophasic at 360J 25. If resuscitative efforts are successful: Perform 12-lead ECG ❹

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26. If resuscitative efforts are unsuccessful:
contact the base hospital to consider
pronouncement ⑦

SPECIAL CONSIDERATIONS

- ① Consider causes of PEA: acidosis; cardiac tamponade; drug overdose; hyperkalemia; hypothermia; hypovolemia; hypoxia; massive MI; pulmonary embolus; or tension pneumothorax

Drugs to consider for specific suspected causes:

If hypoglycemia is suspected:

DEXTROSE (50%)

50ml IV or IO

If narcotic overdose is suspected:

NARCAN (naloxone)

0.8-2mg IV or IO

2mg IN or IM

If dialysis patient:

CALCIUM CHLORIDE - BASE CONTACT REQUIRED

1gm IV or IO

2mg IN or IM

SODIUM BICARBONATE – BASE CONTACT REQUIRED

1mEq/kg IV or IO

If tricyclic overdose suspected:

SODIUM BICARBONATE – BASE CONTACT REQUIRED

1mEq/kg IV or IO

If calcium channel blocker overdose suspected:

CALCIUM CHLORIDE – BASE CONTACT REQUIRED

1gm IV or IO

- ② Attempt to limit interruptions in CPR to no more than 10sec with advanced airway. Should utilize end tidal CO₂ monitoring for advanced airway and monitoring ROSC.
- ③ Pulse check if a change in ECG rhythm, take no longer than 10sec to check for a pulse. If no pulse is detected within 10sec, resume chest compressions.
- ④ If hypothermia is suspected, administer only one dose of epinephrine and **no other medications** until the patient is re-warmed
- ⑤ Biphasic defibrillator settings may vary; refer to manufacturer's guidelines. If unknown, use 200J for biphasic, 360J for monophasic
- ⑥ If hypothermia is suspected, defibrillate only once until the patient is re-warmed
- ⑦ If hypothermia is suspected, resuscitation efforts should not be abandoned until the patient is re-warmed, or the base hospital orders termination of resuscitative efforts
- ⑧ Post cardiac arrest patients with ROSC, with or without a 12 lead ECG analysis equivalent to "Acute MI", shall be transported to the most accessible open SRC if ground transport is 30 minutes or less regardless of service agreement rules and/or considerations.